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PTO/SB/05 (11-00) Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY TRANSMITTAL

8836-198 (IB12226-US) Attorney Docket No. Seong-Ho JEUNG First Inventor TERNARY CONTENT ADDRESSABLE...

PATENT APPLICATION EV413369342US Express Mail Label No. (Only for new nonprovisional applications under 37 CFR 1.53(b)) Assistant Commissioner for Patents **APPLICATION ELEMENTS** ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) specification [Total Pages 22] 3. Computer Readable Form (CRF) - Descriptive title of the invention b. Specification Sequence Listing on: - Cross Reference to Related Applications i. CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, i i. 🔲 paper or a computer program listing appendix Statements verifying identity of above copies Background of the Invention - Brief Summary of the Invention **ACCOMPANYING APPLICATION PARTS** - Brief Description of the Drawings (if filed) - Detailed Description 9. 🔽 Assignment Papers (cover sheet & document(s)) - Claim(s) 37 CFR 3.73(b) Statement Power of - Abstract of the Disclosure 10. Attorney (when there is an assignee) English Translation Document (if applicable) Drawing(s) (35 U.S.C. 113) [Total Sheets Copies of IDS Information Disclosure 12. 5. Oath or Declaration [Total Pages Citations Statement (IDS)/PTO-1449 Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) **Preliminary Amendment** Return Receipt Postcard (MPEP 503) h (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) **DELETION OF INVENTOR(S)** Signed statement attached deleting inventor(s) Request and Certification under 35 U.S.C. 122 named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 17. 🗸 Credit Card Payment Forms Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.:_ Prior application information: Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS (Insert Customer No. or Attach bar code label here) Customer Number or Bar Code Label Correspondence address below Frank Chau Name F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501 Address New York 11554 East Meadow City State Zip Code (516) 357-0092 U.S.A (516) 357-0091 Country Telephone Fax

	<u> </u>		
Name (Print/Type)	Eric M. Parham	Registration No. (Attorney/Agent	45,747
Signature	9. Pahan		Nov. 24, 2003

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
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CEE TO A NOMITTA		Complete if Known						
FEE TRANSMITTA	┗╽	Application Number			er			
for FY 2004		Filing	Date		Noveml	November 24, 2003		
		First Named Inventor Sec		tor Seong-l	Seong-Ho JEUNG			
Effective 10/01/2003. Patent fees are subject to annual revision.		Exam	iner Na	ame				
Applicant claims small entity status. See 37 CFR 1.27		Art U	nit					
TOTAL AMOUNT OF PAYMENT (\$) 896.00		Attorney Docket No. 8836-198			o. 8836-19	98 (IB12226-US)		
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)						
Check Credit card Money Other None	3. A	DDITI	ONAL	FEE	S			
Deposit Account:	<u>Large</u>	Entity	Small	Entity				
Deposit	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee I	Description	Fee Paid	
Account Number	1051		2051		Surcharge - late	filing fee or oath		
Deposit Account F.CHAU & ASSOCIATES, LLC	1052	50	2052		Surcharge - late cover sheet	provisional filing fee or		
Name	1053	130	1053		Cover sneet Non-English spe	ecification		
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812 2	,520	For filing a reque	est for ex parte reexamination	<u> </u>	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804		Requesting puble Examiner action	lication of SIR prior to		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting pub Examiner action	dication of SIR after	<u> </u>	
FEE CALCULATION	1251		2251			eply within first month		
1. BASIC FILING FEE	1252		2252	210		eply within second month		
Large Entity Small Entity Fee Fee Fee Fee Paid	1253		2253			eply within third month		
Code (\$) Code (\$)		1,480	2254	740		eply within fourth month		
1001 770 2001 385 Utility filing fee 770.00		2,010	2255			eply within fifth month		
1002 340 2002 170 Design filing fee	1401		2401		Notice of Appea		$\vdash \vdash \vdash \vdash \vdash$	
1003 530 2003 265 Plant filing fee	1402		2402			support of an appeal		
1004 770 2004 385 Reissue filing fee	1403		2403		Request for ora	-		
1005 160 2005 80 Provisional filing fee		1,510				ute a public use proceeding		
SUBTOTAL (1) (\$) 770.00	1452		2452		Petition to reviv	•		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2453			re - unintentional	<u> </u>	
Fee from Ext <u>ra Claims below</u> Fee Paid	1501	1,330 480	2501 2502		Utility issue fee Design issue fe	·		
Total Claims 20 -20** = 0 X 18 = 0	1503		2503		Plant issue fee		<u> </u>	
Independent Claims 4 - 3** = 1 x 86 = 86	1460		1460		Petitions to the			
Multiple Dependent 290 =	1807		1807			under 37 CFR 1.17(q)		
Large Entity Small Entity	1806		1806		•	nformation Disclosure Stmt		
Fee Fee Fee Fee Fee Description Code (\$)	8021		8021		Recording each	patent assignment per	40	
1202 18 2202 9 Claims in excess of 20					property (times	number of properties)	<u> </u>	
1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	300	(37 CFR 1.129)	sion after final rejection (a))	<u> </u>	
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1810	770	2810	385	For each addition	onal invention to be CFR 1.129(b))		
over original patent	180 ⁻	1 770	2801	385	Request for Co	ontinued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for ex of a design app	xpedited examination plication		
SUBTOTAL (2) (\$) 86.00		r fee (sp					<u> </u>	
**or number previously paid, if greater; For Reissues, see above	*Red	luced by	Basic F	iling Fe	ee Paid S	SUBTOTAL (3) (\$) 40.0	0	
SUBMITTED BY						(Complete (if applicable))		
Name (Print/Type) Eric M. Parham		Registra (Attomey		45,	747	Telephone 516-357-0091		
Signature E Pal		MUITION	nyguu			Date Nov. 24	, 2003	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

UTILITY APPLICATION FEE TRANSMITTAL

	UTILITY APPLICATION FEE TRANSMITTAL							
Sir:								
Transmitted herewith for filing is the patent application of								
Inventor(s):	Seong-Ho JEUNG							
For:	TERNARY CONTENT ADDRESSABLE MEMORY CELL							
Enclosed are:								
[X] <u>11</u>	page(s) of specification							
[X] <u>1</u>	page(s) of Abstract							
[X] <u>10</u>	page(s) of claims							
[X] <u>6</u>	sheets of drawings [X] formal [] informal							
[X] <u>2</u>	page(s) of Declaration and Power of Attorney							
[X] An Assignment of the invention to <u>Samsung Electronics Co.,</u> <u>Ltd.</u>								

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date <u>November 24, 2003</u> in an envelope as "Express Mail Post Office to Addressee" Mail Label Number <u>EV413369342US</u> addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Eric M. Parham								
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[]		cion claims the .S. Provisional			
	APPLICATION N	10(S).:		FILING DA	TE
	_/			***************************************	<u> </u>
	/			 -	
[X]	Certified copy	of applicatio	ns		
<u>Coun</u>	try	Appln. No.		<u>Filed</u>	
<u>Kore</u>	a	2002-76578		4 Decembe	r 2002

from which priority under Title 35 United States Code, § 119 is claimed

[X] is enclosed.

- [] will follow.
- [] The fees to be charged are to be based on the number of claims remaining as a result of the attached Preliminary Amendment.

CALCULATION OF UTILITY APPLICATION FEE

	Numb			Number				Basic Fee
For Filed		<u>ed</u>		Extra		Rate	\$770.0	
Total							•	
Claims*	20	-20	=	0		x \$ 18.00		\$ 0
Independent								
Claims	4	- 3	=	1		x \$ 86.00		\$ 86.00
Multiple	[]	yes		Add'l.	Fee	\$290.00		\$
Dependent								
Claims	[]	no		Add'l.	Fee	None	=	\$
							TOTAL	\$856.00
[] Name 1 days		17 6	a	33 Date:	L O.		. –	

[] Applicant Claims Small Entity Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith § _____.

 $[\]star$ Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

- [] A check in the amount of \$____ is enclosed for recording the attached Assignment.
- [X] Please charge fee of \$40.00 for recording the attached assignment by Credit Card Payment Form PRO-2038 enclosed herewith.
- [X] Please charge fee of \$856.00 to cover the filing fee by Credit Card Payment Form PTO-2038 enclosed herewith.
- [] Charge fee to Deposit Account No. <u>50-0679</u>. Order No. <u>50-0679</u>. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.
- [X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Date: November 24, 2003

Eric M. Parham Reg. No. <u>45,747</u>

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East Meadow, New York 11554
Tel. No. (516) 357-0091
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